Adith Prabukumar

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Professional Experience

Data Science Engineer, *Frontier Science and Technology*   Aug 2022 | Buffalo, New York
- Worked on an **LLM-based automation model** to solve complex statistical problems during the annotation process reducing **Statistician workload by 43%.**
- Developed **comprehensive dashboards** using Graffana with **valuation metrics** such as RMSE, and BLEU scores to evaluate the performance of various ML models.
- Utilized **Tensorflow** to create a **DeepPDF** ML model, to parse large quantity of medical data records.
- Worked with **DevOps team** to containerize the models using **Docker** and push them to the production server.
- Engineered an **automated bot** utilizing **Python** to extract data from Excel files, and upload it to a local Postgres Database, resulting in a notable 30% reduction in manual data entry time.
- Worked on real-time data transfer pipeline utilizing **Kafka**, transferring **1M data records from local server to AWS Redshift** data warehouse, ensuring ease of access to data and increasing **productivity by 80%**.
- Implemented **optimized PostgreSQL queries** on legacy projects, increasing query processing time by 40% and improving cross-team functionality.
- Spearheaded the design and implementation of robust CI/CD pipelines using **GitHub Actions** and other version control methodologies across all projects.

Software Engineer, *AINQA Group*   Aug 2020 – Jul 2021 | Mumbai, India
- Achieved recognition as the **leading performer** within the team by consistently **resolving existing tickets** and collaborating with colleagues.
- Leveraged **OCR technology** using **OpenCV** to extract data leading to the creation of a comprehensive data set, **increasing the productivity** of the team by **40%**.
- Engineered a web application using Python's **Flask** framework, enabling employees to effortlessly upload CSV files for real-time interactive data analysis, **improving data accessibility** by 30%.
- Collaborated with Senior Enterprise Architects, Solution Architects, and Product Managers, to understand the workflow and ensure standards and rationalization plans to improve visibility and insights of strategic outcomes to drive product **impact by around 70%.**
- Incorporated **UAT testing methods** by planning and executing key test cases, improving the error visibility process by 30%.

Skills

Languages: (Python, Go, Javascript, HTML, Bash, Git)

Big Data: (Apache Hive, Kafka, Hadoop, Apache Spark, Apache Airflow, Hadoop)

Python Packages (Pandas, Numpy, Tensorflow, Seaborn, Flask, FastAPI)

Tools (Github Actions, Grafana, Tableau, Postman, Docker, Kubernetes, AWS, GraphQL, REST API)

Cloud Services (AWS S3, AWS EC2, AWS Lambda, AWS IAM, Snowflake, Databricks)

Education

Masters of Science in Data Science, *University at Buffalo*   Aug 2021 – Mar 2023 | Buffalo, NY
Cumulative GPA: 3.8/ 4.0 - *Magna Cum Laude*

Bachelor of Engineering, *Anna University*   Aug 2017 – Mar 2021 | Tamil Nadu, India
Cumulative GPA: 3.7/ 4.0

Projects

Khoj, *Active Open-Source Contributor* ⤢   Aug 2023 – present
- Khoj is a **web application** that uses **NLP tools** to organize your notes taken from various sources and has a personal **GPT-4 assistant**.
- Leveraged knowledge of **Object Oriented Programming** concepts to write clean code and improve functionalities.
- **Resolved 5 open issues** to completion. Collaborated with various other contributors to implement the Github indexing API feature.
- Played a key role in the **documentation** of the new software changes and feature updates.